



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 09/862,688  
Filing Date: May 22, 2001  
Applicant: D. Mauer et al.  
Group Art Unit: 3726  
Examiner: Essama Omgba  
Title: Riveting System and Process for Forming a Riveted Joint  
Attorney Docket: 0275M-000260/DVB

PATENT  
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DEC 28 2003  
TECHNOLOGY CENTER R3700

Director of the United States Patent and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. **LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION**

The patents, publications and other information requested to be considered by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

II. **COPIES**

A.  X  Submitted herewith is a legible copy of (i) each U.S. patent application publication and U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; (iii) for each cited pending U.S. application, the application specification including the claims, and any drawing of the application which caused it to be listed including the claims directed to that portion; and (iv) all other information or that portion which caused it to be listed.

B.   Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

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180.00 DA

U.S. Serial Number

U.S. Filing Date

C. \_\_\_\_ Because the present application was/is being filed after June 30, 2003, no copies of the U.S. patents or U.S. patent application publications which are listed on the attached Form 1449 are enclosed pursuant to the waiver of 37 C.F.R. § 1.98(a)(2)(i). Any foreign patent documents or non-patent literature listed on the attached Form 1449 are enclosed herewith.

D. \_\_\_\_ This is a PCT application in the entry of the National Phase in the United States. A copy of the International Search Report is attached for the Examiner's information. The documents listed on the International Search Report are listed on the attached Form-1449 for consideration by the Examiner and for listing on any patent resulting from this application. Since the International Search Report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g))

III. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

A. X Except as may be indicated below in (B), all of the patents, publications or other information are in the English language (concise explanation not required).

B. X A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. § 1.98(a)(3)):

EP 0 768 128 A1: This patent discloses a system that has two riveting assemblies (14) mounted in casings (4,5) which can be mounted on robot arms (A,B) on each side of the two parts (2,3) to be riveted. Each casing is fitted with an electrical drive motor (21), preferably of the brushless type, which drives the riveting assemblies. A control system (25) actuates the two motors so that the riveters (14) encounter the rivet (1) at different times and/or with different kinetic energy, chosen to ensure the desired shape of the rivet while ensuring that the two pieces to be joined are not deformed or displaced.

Stanznieten ist zukunftsrichtig in der Blechverarbeitung: This publication appears to disclose a self-piercing rivet and a hydraulically powered riveting machine having a closed-loop control.

1. \_\_\_\_ See the attached foreign patent office communication from a counterpart foreign application:
2. \_\_\_\_ English translations are provided:
3. \_\_\_\_ Other:

C. \_\_\_\_ The following additional information is provided for the Examiner's consideration.

IV. CROSS REFERENCE TO RELATED APPLICATION(S)

A. \_\_\_\_ The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does(do) not waive the confidentiality provisions of 35 U.S.C. § 122.

V. THIS IDS IS BEING FILED UNDER

A. \_\_\_\_ **37 C.F.R. § 1.97(b):** (check only one box)

1. \_\_\_\_ within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.

2. \_\_\_\_ within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.

3. \_\_\_\_ before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).

4. \_\_\_\_ before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.

B. X **37 C.F.R. § 1.97(c):** (check only one box)

before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.

1. X No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

2. \_\_\_\_ See the certification below. No fee is required.

C. \_\_\_\_ **37 C.F.R. § 1.97(d):**

after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.

1. \_\_\_\_ See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)

The undersigned hereby certifies that:

A. \_\_\_\_ each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F. R. 1.704(d) below in section VII, if applicable; or

B. \_\_\_\_ no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).

C. \_\_\_\_ Some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.

VII. STATEMENT UNDER 37 CFR 1.704(d)

The undersigned hereby states that:

\_\_\_\_ each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS.

VIII. PAYMENT OF FEES (check only one box)

A. \_\_\_\_ A check in the amount of \$180.00 is enclosed for the above-identified fee.

B. \_\_\_\_ Please charge Deposit Account No. 02-2550 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 02-2550.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 02-2550.

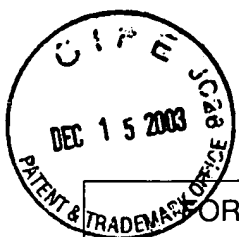
Respectfully submitted,

Dated: Dec. 15, 2003

By: 

Monte L. Falcoff  
Reg. No. 37,617

HARNESS, DICKEY & PIERCE, P.L.C.  
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MLF/MPF/csd



FORM HDP-1449 (Based on Form PTO-1449)

**PATENT AND TRADEMARK OFFICE**  
**INFORMATION DISCLOSURE CITATION**  
(Use several sheets if necessary)

Sheet 1 of 3

ATTORNEY DOCKET No.

SERIAL No.

0275M-000260/DVB

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APPLICANT

D. Mauer et al.

FILING DATE

May 22, 2001

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**U.S. PATENT DOCUMENTS**

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.		1,483,919	2/19/24	Walker		
2.		6,014,802	1/18/00	Guerin		

**FOREIGN PATENT DOCUMENTS**

Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation	
						Yes	No
1.	✓	WO 99/15288	4/1/99	PCT			
2.	✓	WO 00/29145	5/25/00	PCT			
3.	✓	WO 00/47350	8/17/00	PCT			
4.	✓	WO 02/16785	2/28/02	PCT			
5.	✓	WO 98/09767	3/12/98	PCT			
6.	✓	EP 0768128 A1	4/16/97	Europe			
7.	✓	1487098	9/28/77	Great Britain			
8.	✓	WO 94/14554	7/7/94	PCT			
9.	✓	WO 95/08860	3/30/95	PCT			
10.	✓	EP 0893179 B1	10/18/00	Europe			
11.	✓	0685662 A2	12/6/95	Europe			

**OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)**

Ref. Desig.	Examiner's Initials	
1.	✓	"Riveting Equipment Electric Servo Systems", European Product Catalogue Issue 01, June 2001, pages 1-20.

Examiner:

Date Considered:

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM HDP-1449 (Based on Form PTO-1449)

**PATENT AND TRADEMARK OFFICE  
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(Use several sheets if necessary)

Sheet 2 of 3

ATTORNEY DOCKET NO.

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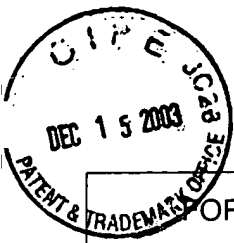
**OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)**

Ref. Desig.	Examiner's Initials	
2.	✓	"Rivet Feed Mechanisms - Standard," European Product Catalogue Issue 01, June 2001, pages 1-4.
3.	✓	"Riveting Equipment Hydraulic Pre-Clamping Systems," European Product Catalogue Issue 01, June 2001, pages 1-6.
4.	✓	"Riveting Equipment Overview: Overview of Riveting Systems," European Product Catalogue Issue 01, June 2001, pages 1 and 2.
5.	✓	"Riveting Equipment Hydraulic Double Acting Systems," European Product Catalogue Issue 01, June 2001, pages 1-13
6.	✓	"Rivet Part Numbering System," European Product Catalogue Issue 01, June 2001, pages 1-15.
7.	✓	IBEC Engineering Conference - "Proceedings: Body Assembly & Manufacturing," September 26-29, 1994, Detroit, MI, pages 1-9.
8.	✓	Stephen P. Sunday, International Congress & Exposition, SAE Technical Paper Series, "Self-Piercing Rivets for Aluminum Components", February 28-March 4, 1983, 14 pages.
9.	✓	Automotive Design Engineering 1994, Vehicle & Component Manufacturing, "Self piercing riveting - a solution for body and chassis combinations," pages 175-178.
10.	✓	Roger Doo, "Automotive body construction using self-piercing riveting," 1993, 4 pages.
11.	✓	International Search Report for International Application No. PCT/GB93/02608, April 21, 1994, 2 pages.
12.	✓	Lothar Budde and Wilhelm Lappe, "Stanznieten ist zukunftstrachtig in der Blechverarbeitung," 1991, pages 94-100.
13.	✓	Lothar Budde and Wilhelm Lappe, "Self-piercing riveting is pointing the way forward in metal processing," May 1999, 12 pages.
14.	✓	International Search Report for International Application No. PCT/US94/10232, January 2, 1995, 2 pages.
15.	✓	How Things Work 1, Vol. 1, 1974, 3 pages.

Examiner:

Date Considered:

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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Sheet 3 of 3

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**OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)**

Ref. Desig.	Examiner's Initials	
16.	✓	Correspondence from National Rivet & Mfg. Co. to Henrob Corporation, July 16, 2001, 3 pages.
17.	✓	Correspondence from Chicago Rivet to Henrob Corporation, July 16, 2001, 3 pages.
18.	✓	Affidavit of John J. Vrana, July 17, 2001, 2 pages.
19.	✓	International Search Report for International Application No. PCT/US97/15929, October 17, 1997, 3 pages.
20.	✓	Kenneth Edwards, "Pierce-&-Roll riveting - the alternative to spot welding," Aluminum Industry, The Applications Magazine, October/November 1992, 5 pages.

Examiner:

Date Considered:

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.